# Ecotox Report for Case # P-18-0261

## General

| | | | |
|---|---|---|---|
| [redacted] | | **Report Status:** | Complete |
| **Status Date:** | 11/19/2018 | **CRSS Date:** | |
| **SAT Date:** | | **SAT Chair:** | |
| **Consolidated PMN:** | N | **Consolidated Set:** | |
| **Ecotox Related Cases:** | [redacted] | | |
| **Health Related Cases:** | | | |
| **Submitter:** | | | |
| **CAS Number:** | | | |
| **Chemical Name:** | | | |
| **Use:** | | | |
| **Trade Name:** | | | |
| **PV-max(kg/yr):** | | **Ecotox Assessor:** | Kim, Anne |

## Fate Summary Statement

| | |
|---|---|
| **Fate Summary Statement:** | |

## Physical Chemical Information

| | | | |
|---|---|---|---|
| **Molecular Weight:** | | | |
| **Wt% < 500:** | | **Wt% < 1000:** | |
| **Physical State - Neat:** | | | |
| **Melting Point:** | | **Melting Point (est):** | |
| **MP (EPI):** | | | |
| **Vapor Pressure:** | | **Vapor Pressure (est):** | |
| **VP (EPI):** | | | |
| **Water Solubility:** | | **Water Solubility (est):** | |
| **Water Solubility (EPI):** | | | |
| **Henry's Law::** | | | |

| | | | |
|---|---|---|---|
| **Log Koc:** | | **Log Koc (EPI):** | |
| **Log Kow:** | | **Log Kow (EPI):** | |
| **Log Kow Comment:** | | | |

## SAT

## Concern Level

| | |
|---|---|
| **Ecotox Rating (1):** | 1 |
| **Ecotox Rating Comment (1):** | |
| **Ecotox Rating (2):** | |
| **Ecotox Rating Comment (2):** | |
| **Ecotox Route of Exposure:** | No releases to water |

## Ecotox Comments

| | |
|---|---|
| **Exposure Based Review (Eco):** | N |
| **Ecotox Comments:** | |
| **Exposure Based Testing:** | |

## PBT Ratings

| Persistence | Bioaccumulation | Toxicity | Comments |
|---|---|---|---|
| | | | |

## Eco-Toxicity Comment:

## Fate Ratings

**Removal in WWT/POTW (Overall):**

| Condition | Rating Values | Rating Description 1 | 2 | 3 | 4 | Comment |
|---|---|---|---|---|---|---|
| | | | | | | |

| Removal in WWT/POTW (Overall): Condition | Rating Values | Rating Description 1 | 2 | 3 | 4 | Comment |
|---|---|---|---|---|---|---|
| **Fish BCF:** | | | | | | |
| **Log Fish BCF:** | | | | | | |
| **WWT/POTW Sorption:** | | Low | Moderate | Strong | V. Strong | |
| **WWT/POTW Stripping:** | | Extensive | Moderate | Low | Negligible | |
| **Biodegradation Removal:** | | Unknown | High | Moderate | Negligible | |
| **Biodegradation Destruction:** | | Unknown | Complete | Partial | — | |
| **Aerobic Biodeg Ult:** | | <= Days | Weeks | Months | > Months | |
| **Aerobic Biodeg Prim:** | | <= Days | Weeks | Months | > Months | |
| **Anaerobic Biodeg Ult:** | | <= Days | Weeks | Months | > Months | |
| **Anaerobic Biodeg Prim:** | | <= Days | Weeks | Months | > Months | |
| **Hydrolysis (t1/2 at pH 7,25C) A:** | | <= Minutes | Hours | Days | >= Months | |
| **Hydrolysis (t1/2 at pH 7,25C) B:** | | <= Minutes | Hours | Days | >= Months | |
| **Sorption to Soils/Sediments:** | | V. Strong | Strong | Moderate | Low | |
| **Migration to Ground Water:** | | Negligible | Slow | Moderate | Rapid | |
| **Photolysis A, Direct:** | | Negligible | Slow | Moderate | Rapid | |
| **Photolysis B, Indirect:** | | Negligible | Slow | Moderate | Rapid | |
| **Atmospheric Ox A, OH:** | | Negligible | Slow | Moderate | Rapid | |
| **Atmospheric Ox B, O3:** | | Negligible | Slow | Moderate | Rapid | |
| **Bio Comments:** | | | | | | |
| **Fate Comments:** | | | | | | |

## Ecotoxicity Values

| Test organism | Test Type | Test Endpoint | Predicted | Experimental | Comments |
|---|---|---|---|---|---|
| **Fish** | 96-h | LC50 | * | | *= No effects at saturation |
| **Daphnid** | 48-h | LC50 | * | | |
| **Green Algae** | 96-h | EC50 | * | | |
| **Fish** | - | Chronic Value | * | | |
| **Daphnid** | - | Chronic Value | * | | |
| **Green Algae** | - | Chronic Value | * | | |

**Ecotox Value Comments:** Predictions are based on SARs for nonionic polymers (insoluble); [redacted] with a an unknown MP (P); S = negligible (P), reacts slowly (M); effective concentrations based on 100% active ingredients and mean measured concentrations; hardness <150 mg/L as CaCO3; and TOC <2.0 mg/L.

## Ecotox Factors

| Factors | Most Sensitive Endpoint | Assessment Factor | CoC | Comment |
|---|---|---|---|---|
| **Acute Aquatic (ppb):** | | | | Acute and chronic COCs were not calculated because the toxicity values show no effects at saturation. |
| **Chronic Aquatic(ppb):** | | | | |

| Factors | Values | Comments |
|---|---|---|
| **SARs:** | Nonionic Polymers | |
| **SAR Class:** | [redacted] | |
| **TSCA NCC Category?** | None | |

**Recommended Testing:** Potentially Useful
Information: None.

**Ecotox Factors Comments:** Environmental Hazard: Environmental hazard is relevant to whether a new chemical substance is likely to present unreasonable risk because the significance

of the risk is dependent upon both the hazard (or toxicity) of the chemical substance and the extent of exposure to the substance. EPA estimated environmental hazard of this new chemical substance using predictions based on the negligible water solubility of P-18-0261 (insoluble nonionic polymer; [redacted] Acute and chronic toxicity values estimated for fish, aquatic invertebrates, and algae are all no effects at saturation. These toxicity values indicate that the new chemical substance is expected to have low environmental hazard. Because hazards are not expected up to the water solubility limit, acute and chronic concentrations of concern are not identified.

Environmental Risk: Risks to the environment were evaluated by comparing estimated surface water concentrations with the acute and chronic concentrations of concern. Risks to the environment from acute and chronic exposure are not expected at any concentration of the new chemical substance soluble in the water (i.e., no effects at saturation).

## Comments/Telephone Log

| Artifact | Update/Upload Time |
|---|---|